

BIOTECHNOLOGY SYSTEMS

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Application Serial Number:	09/105,117I
Source:	1600
Date Processed by STIC:	8/12/2002

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FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

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- 1. EFS-Bio (<a href="http://www.uspto.gov/ebc/efs/downloads/documents.htm">http://www.uspto.gov/ebc/efs/downloads/documents.htm</a>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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Revised 01/29/2002



1600

RAW SEQUENCE LISTING DATE: 08/12/2002 PATENT APPLICATION: US/09/105,1171 TIME: 14:05:45

Input Set : A:\Sequencelisting\_FZJ 9910 PCT\_US.txt

Output Set: N:\CRF3\08122002\I105117I.raw

Does Not Comply
Corrected Diskette Needed

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3 <110> APPLICANT: Forschungszentrum Juelich GmbH
5 <120> TITLE OF INVENTION: Process for the microbial production of amino acids by
6 boosted activity of export carriers
8 <130> FILE REFERENCE: 1

C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/105,1171

C--> 11 <141> CURRENT FILING DATE: 1998-06-17

E--> 13 <160> NUMBER OF SEQ ID NOS: 2 ( SEE P. +)
15 <170> SOFTWARE: PatentIn Ver. 2.0
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P.6 for explanation

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							- \		,		- (						
243	Tyr	Leu	Asp	Gly	Ile	Pro	Glu	Gly	Ser	Arq	Ala	Ser	Gln	Gly	Lys	Ser	
244				100				-	105					110	-		
246	ctg	tct	gag	ggc	atg	ttg	aac	gtg	aac	aat	att	gat	atg	gtc	cgc	aag	385
247	Leu	Ser	Glu	Gly	Met	Leu	Asn	Val	Asn	Asn	Ile	Asp	Met	Val	Arg	Lys	
248			115					120					125				
						cag											433
			Asp	Ile	Ala	Gln		Arg	Gly	Gln	Ser		Ala	Gln	Met	Ala	
252		130					135	•				140					
						cgc											481
		Ala	Trp	Val	Leu	Arg	Glu	GIn	GLy	Glu		Gly	Ala	Asp	Thr		
	145					15.0					155					160	
						ggt											529
260	THE	ser	Ala	ьeu	11e	Gly	Ата	ser	ser		Glu	GIn	Leu	Asp		Ser	
	att	ast.	+ 02	ata		aac	++~	~~~	+++	170	~~~	~~~	~		175		E 7 7
						Asn											577
264	Leu	кэр	Ser	180	ASII	MSII	ьеи	GIU	185	ser	ASP	Ата	GIU	190	GIU	Ald	
	atc	αat	σασ		too	cac	gac	acc		atc	aac	att	taa		аал	acc	625
						His											.023
268			195				P.F	200	<b>0</b> -1				205	2124	_,5	1114	
	acc	qat	tcc	aaa	acc	cgc	qaa		taa	ccca	atcaa	ica t		.t.t.ġa	at.		672
						Arg											· -
272		210		-			215										
274	74 ggccaatgcg gtcatcacaa ctgccacgac gacgttgatc cagcgccaca ccttggggct												732				
	6 ggacageggg egtgacaatg etgetgegee gaaacecaee agegggaace agateagget																
																jccgac	
																cacgat	
																cgcac	
																cacggt	
286	tggi	ttete	jtt t	tette	caate	ga to	etgt	ggcgc	tto	ccaco	cttg	tttg	ftcat	gg d	egtet	ttcgc	1092
288	tgc	catga	icg (	gcaaa	acca	ta ac	caggt	aago	gat	gcca	accc	cago	gcat	aa t	catco	gagcac	1152
290	gate	eggeg	ica d	gcati	Lgga	ca aa	lagat	caac	gcc	caac	ggtg	ccgg	rcgat	:ga a	acaaa	aagac	1212
																tgttt	
206	tata	acto	ige o	10ac	cugo	29 9 L	.ccg	tegge	. cag	laad	aga	etge	lecec	ca a	aaago	agacc tgatt	1332
290	aatt	totts	ay c	1 + 0 0 1	t++ as	at at	acco	+0 =	yac	CLAI	-gya	ay La	ICLLO	iag i	_dddd	itgatt	
299	990		iac c	Leggi	LLac	ic at	.aycı								ac a Asp 1		1444
300								1	iet F		220	.16 6	111 1	ieu i	_	25	
	tta	ctc	t.ca	atc	att	gat	gaa	aac	age			aac	acc	tcc			1492
303	Leu	Leu	Ser	Ile	Ile	Asp	Glu	Glv	Ser	Phe	Glu	Glv	Ala	Ser	T.en	Δla	1472
304			-	_	230			1		235		<b>-</b> 1		001	240	1114	
	ctt	tcc	att	tcc		tcg	qcq	ata	agt		Cac	att	aaa	act.		.gag	1540
307	Leu	Ser	Ile	Ser	Pro	Ser	Ālā	Val	Ser	Gln	Arg	Val	Lys	Ala	Leu	Glu	2010
308				245					250		,		-	255			
310	cat	cac	gtg	ggt	cga	gtg	ttg	gta	tcg	cgc	acc	caa	ccg	gcc	aaa	gca	1588
311	His	His	Val	Gly	Arg	Val	Leu	Val	Ser	Arg	Thr	Gln	Pro	Ala	Lys	Ala	
312			260					265					270		_		
314	200	~~~															
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PATENT APPLICATION: US/09/105,1171
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316		275					280					285					
	ctg		σca	σaa	act	aaa		caa	cta	t.ct.	σσα.		ctt	act	gaa	atc	1684
	Leu																1001
	290					295		0			300	9	204		0	305	
	ccg	tta	acc	atc	acc		aac	αca	σat	tea		tcc	aca	taa	+++		1732
	Pro							_									1752
324					310				<sub>F</sub>	315	204	001	****	P	320	110	
	ccc	ata	ttc	aac		σt.a	get.	t.ct	t.aa		σσα	αса	acσ	ctc		cta	1780
	Pro																1,00
328				325		,			330	1	1			335.		200	
	cgc	tta	σaa	gat	σaa	aca	cac	aca	tta	tcc	tta	cta	caa			gat.	1828
	Arg																2020
332			340	•			-	345					350	,	1		
334	gtt	tta	qqa	qcq	qta	acc	cat	gaa	qct	aat	ccc	ata	aca	ααa	tat	gaa	1876
	Val																
336		355	-				360					365		_	-		
338	gta	gta	gaa	ctt	gga	acc	atg	cgc	cac	ttg	gcc	att	gca	acc	ccc	tca	1924
	Val						_	-		-			-				
340					-	375		•			380					385	
342	ttg	cgg	gat	gcc	tac	atg	gtt	gat	ggg	aaa	cta	gat	tgg	gct	gcg	atg	1972
	Leu																
344					390					395					400		
346	CCC	gtc	tta	cgc	ttc	ggt	ccc	aaa	gat	gtg	ctt	caa	gac	cgt	gac	ctg	2020
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348				405					410					415			
	gac																2068
	Asp	Gly	Arg	Val	Asp	Gly	Pro	Val	Gly	Arg	Arg	Arg	Val	Ser	Ile	Val	
352			420					425					430				
	ccg																2116
	Pro		Ala	Glu	Gly	Phe		Glu	Ala	Ile	Arg	_	Gly	Leu	Gly	$\mathtt{Trp}$	
356		435					440					445					
	gga																2164
	Gly	Leu	Leu	Pro	Glu		Gln	Ala	Ala	Pro		Leu	Lys	Ala	Gly		
360						455					460					465	
	gtg																2212
	Val	Ile	Leu	Leu		Glu	Ile	Pro	Ile		Thr	Pro	Met	Tyr		Gln	
364			•		470					475					480		
	cga																2260
	Arg	Trp	Arg		GIU	ser	Arg	ser		Ala	Arg	Leu	Thr		АТа	Val	
368				485					490					495			
											tag	ttac	cttci	tga a	aaagg	gttcag	2313
	Val	ASP		АТА	тте	GIU	стХ		Arg	Pro							
372	aa++	+++	500	+ a+ +	- 000	~-		505	. ~~-								2272
376			ac t		-cyc	o go	agga	ialig	y ggc	cago	cag	agta	iaca(	oct 1	_cago	caaatg	
3/0	0 9										2374						

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ret poge for more enou Leu Ala Arg Leu Thr Asp Ala Val Val Asp Ala Ala Ile Glu Gly Leu 275 280 285

Arg Pro 290

FZJ 9910 PCT/US 6/8

FZJ 9910 PCT/US 8/8

) delete

## VERIFICATION SUMMARY

DATE: 08/12/2002 PATENT APPLICATION: US/09/105,1171 TIME: 14:05:46

Input Set : A:\Sequencelisting\_FZJ 9910 PCT\_US.txt

Output Set: N:\CRF3\08122002\I105117I.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:206 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO

L:206 M:283 W: Missing Blank Line separator, <210> field identifier

L:208 M:283 W: Missing Blank Line separator, <220> field identifier

L:212 M:283 W: Missing Blank Line separator, <220> field identifier

L:217 M:282 W: Numeric Field Identifier Missing, <212> is required.

L:217 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:0 differs:3

L:13 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (2) Counted (5)